



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 99,097)

In the Application of:)

John W. Elling and Susan I. Bassett)

Serial No.: 09/281,990)

Filed: March 29, 1999)

For: Method and System for Artificial)

Intelligence Directed Lead Discovery)

In High Throughput Screening Data)

Examiner: M. Sheinberg

Group Art Unit: 1631

Commissioner for Patents
Washington, D.C. 20231

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RESPONSE TO OFFICE ACTION MAILED JUNE 4, 2002

Dear Sir:

In response to the Office Action mailed June 4, 2002, and with a three month extension of time, Applicants submit the following amendments and remarks.

In the claims:

Please rewrite claims 69, 72, 73, 83, 84 and 90 to read as follows, reflecting the changes shown in the accompanying marked up versions of these claims:

69. (Amended) A computerized method of identifying a molecular feature set likely to be responsible for a given activity, based on a set of input data that

establishing for each molecule a respective description, by comparison of the molecule's molecular structure to a set of molecular substructure keys;